DRAFT FINAL EXPANDED ENGINEERING EVALUATION/COST ANALYSIS (EEE/CA) FOR THE McLAREN TAILINGS SITE COOKE CITY, MONTANA

Engineering Services Agreement DEQ/MWCB 401027 Task Order Number 05

Prepared for:

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APPENDIX D

RECLAMATION ALTERNATIVES COST TABLES FOR THE McLAREN TAILINGS SITE

PRELIMINARY COST ESTIMATE - ALTERNATIVE 3, McLAREN MINE SITE IN-PLACE CONTAINMENT OF ALL TAILINGS AND WASTE ROCK

| | Quantity | Units | Unit Price | Cost |
|--|----------|----------|--------------|----------------|
| CAPITALICOSTS | | | | |
| Mobilization, Bonding, & Insurance | 1 | L.S. | \$118,908.75 | \$118,908.7 |
| Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.0 |
| Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.0 |
| Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.0 |
| Excavate & Stockpile (Salvage) Existing Cap Material | 11,000 | C.Y. | \$3.00 | \$33,000.0 |
| Excavate OSC Wastes & Consolidate with Tailings | 2,000 | C.Y. | \$5.00 | \$10,000.0 |
| Tailings Grading | 11.6 | Acre | \$1,000.00 | \$11,600.0 |
| Waste Rock Dump Grading | 5.2 | Acre | \$3,000.00 | \$15,600.0 |
| Lime Application (6" depth) - Waste Rock | 1,770 | , Tons | \$75.00 | \$132,750.0 |
| Apply Salvaged Cap Material Over Waste Rock (1' depth) | 11,000 | C.Y. | \$1.50 | \$16,500.0 |
| Clear & Grub Borrow Area Timber | 4 | Acre | \$5,000.00 | \$20,000.0 |
| Excavate/Stockpile Borrow Area Topsoil | 3,250 | C.Y. | \$2.00 | \$6,500.0 |
| Excavate Borrow Area, Deliver and Apply Cover Soil Over Regraded Tailings & WR | 30,000 | C.Y. | \$4.50 | \$135,000.0 |
| Soda Butte Cr. Streambank Armoring (Riprap Application) | 1,420 | C.Y. | \$15.00 | \$21,300.0 |
| Apply Salvaged Topsoil Over Borrow Area (6" depth) | 3,250 | C.Y. | \$1.00 | \$3,250.0 |
| Organic Amendment | 1,710 | Dry Tons | \$150.00 | \$256,500.0 |
| Fertilize and Seed | 22.5 | Acres | \$1,500.00 | \$33,750.00 |
| Mulch | 22.5 | Acres | \$1,000.00 | \$22,500.00 |
| Runon Control Ditch Construction | 2,000 | L.F. | \$5.00 | \$10,000.00 |
| Install Fences | 6,750 | L.F. | \$3.00 | \$20,250.00 |
| Restore Temporary Roadways | 1 | L.S. | \$2,000.00 | \$2,000.00 |
| Subtotal | | | | \$911,633.75 |
| Contingency (20%) | | | | \$182,326.75 |
| TOTAL CAPITAL COSTS | | | | \$1,093,960.50 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 4, McLAREN TAILINGS SITE PARTIAL REMOVAL AND IN-PLACE CONTAINMENT

| | | Quantity | Units | Unit Price | Cost |
|--|--|----------|----------|--------------|--------------|
| - Contraction of the Contraction | CAPITAL COSTS | | | | |
| | Mobilization, Bonding, & Insurance | 1 | L.S. | \$294,468.75 | \$294,468.75 |
| | Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.00 |
| | Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| | Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.00 |
| | Excavate & Stockpile (Salvage) Existing Cap Material | 11,000 | C.Y. | \$3.00 | \$33,000.00 |
| | Excavate OSC Wastes & Consolidate with Tailings | 2,000 | C.Y. | \$5.00 | \$10,000.00 |
| | Clear & Grub Borrow Area Timber | 4 | Acre | \$5,000.00 | \$20,000.00 |
| | Excavate/Stockpile Borrow Area Topsoil | 3,250 | C.Y. | \$2.00 | \$6,500.00 |
| | Excavate Borrow Area & Stockpile Soil | 36,200 | C.Y. | \$2.50 | \$90,500.00 |
| | Excavate Channels Through Tailings, Haul, & Dispose Off-Site | 38,000 | C.Y. | \$15.00 | \$570,000.00 |
| | Install Temporary Sheet Piling for Culvert Installation | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| | Excavate Corridor Through Tailings Dam for Culvert Installation | 400 | C.Y. | \$10.00 | \$4,000.00 |
| | Install Bedding & Concrete Culvert (approx. 191 L.F.) | 1 | L.S. | \$15,000.00 | \$15,000.00 |
| | Re-construct Dam and Compact | 400 | C.Y. | \$15.00 | \$6,000.00 |
| | Remove Temporary Sheet Piling | 1 | L.S. | \$3,000.00 | \$3,000.00 |
| | Construct Dam Effluent Drop Structure | 1 | L.S. | \$8,000.00 | \$8,000.00 |
| | Tailings Grading | 11.6 | Acre | \$1,000.00 | \$11,600.00 |
| | Waste Rock Dump Grading | 5.2 | Acre | \$3,000.00 | \$15,600.00 |
| | Lime Application (6" depth) - Waste Rock | 1,770 | Tons | \$75.00 | \$132,750.00 |
| | Lime Application (1' depth) on Side Slopes of Channel Cut Through Tailings | 5,240 | Tons | \$75.00 | \$393,000.00 |
| | Apply Salvaged Cap Material Over Waste Rock (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| | Organic Amendment | 2,065 | Dry Tons | \$150.00 | \$309,750.00 |
| | Apply Clean Cover Soil Over Waste Rock (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |

TABLE D-2 Continued

| Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 9,700 | C.Y. | \$2.50 | \$24,250.0 |
|--|--------|-------|------------|----------------|
| Apply Clean Cover Soil Over Channel Side Slopes (2' depth) | 15,500 | C.Y. | \$3.00 | \$46,500.0 |
| Apply Salvaged Topsoil Over Borrow Area (6" depth) | 3,250 | C.Y. | \$1.00 | \$3,250.0 |
| Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.0 |
| Fertilize and Seed | 21.6 | Acres | \$1,000.00 | \$21,600.0 |
| Mulch | 21.6 | Acres | \$1,000.00 | \$21,600.0 |
| Runon Control Ditch Construction | 2,000 | L.F. | \$5.00 | \$10,000.00 |
| Install Fences | 6,750 | L.F. | \$3.00 | \$20,250.00 |
| Restore Temporary Roads | 1 | L.S. | \$2,000.00 | \$2,000.00 |
| Subtotal | | | | \$2,257,593.7 |
| Contingency (20%) | | | | \$451,518.7 |
| TOTAL CAPITAL COSTS | | | | \$2,709,112.50 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 5a, McLAREN TAILINGS SITE ON-SITE DISPOSAL IN A CONSTRUCTED MODIFIED RCRA REPOSITORY (IN-PLACE CONTAINMENT OF WASTE ROCK)

| | Quantity | Units | Unit Price | Cost |
|--|----------|----------|--------------|----------------|
| CAPITAL COSTS | | | | |
| Mobilization, Bonding, & Insurance | 1 | L.S. | \$509,426.25 | \$509,426.25 |
| Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.00 |
| Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.00 |
| Excavate & Stockpile (Salvage) Existing Cap Material | 30,000 | C.Y. | \$3.00 | \$90,000.00 |
| Clear & Grub Repository Area Timber | 5 | Acre | \$5,000.00 | \$25,000.00 |
| Excavate Repository / Stockpile Soil | 47,000 | C.Y. | \$2.50 | \$117,500.00 |
| Repository Subgrade Preparation | 24,200 | S.Y. | \$0.50 | \$12,100.00 |
| Install Geocushion | 24,200 | S.Y. | \$3.50 | \$84,700.00 |
| Install GCL Cap Liner | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Install Geocomposite (Drainage Layer) | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Install Leachate Collection System | 1 | L.S. | \$35,000.00 | \$35,000.00 |
| Excavate Tailings, Waste Rock & OSC Wastes, Haul, Load Repository & Compact | 267,200 | C.Y. | \$5.00 | \$1,336,000.00 |
| Lime for Wet Tailings Dehydration | 10,000 | Tons | \$36.00 | \$360,000.00 |
| Install Geocushion | 24,200 | S.Y. | \$3.50 | \$84,700.00 |
| Install GCL Cap Liner | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Install Geocomposite (Drainage Layer) | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Apply Cover Soil Over Repository (2' depth) | 17,000 | C.Y. | \$1.50 | \$25,500.00 |
| Apply Salvaged Cap Material Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| Apply Salvaged Cap Material Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$1.00 | \$19,000.00 |
| Organic Amendment | 2,680 | Dry Tons | \$150.00 | \$402,000.00 |

TABLE D-3 Continued

| T | | | | | |
|---|---|--------|-------|------------|----------------|
| | Apply Clean Cover Soil Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |
| | Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$2.50 | \$47,500.00 |
| | Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.00 |
| | Fertilize and Seed | 23.5 | Acres | \$1,500.00 | \$35,250.00 |
| | Mulch | 23.5 | Acres | \$1,000.00 | \$23,500.00 |
| | Runon Control Ditch Construction | 2,500 | L.F. | \$5.00 | \$12,500.00 |
| | Install Fences | 8,650 | L.F. | \$3.00 | \$25,950.00 |
| | Restore Temporary Roads | 1 | L.S. | \$3,000.00 | \$3,000.00 |
| | Subtotal | | | | \$3,905,601.25 |
| | Contingency (20%) | | | | \$781,120.25 |
| | TOTAL CAPITAL COSTS | | | | \$4,686,721.50 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 5b, McLAREN TAILINGS SITE ON-SITE DISPOSAL IN A CONSTRUCTED REPOSITORY WITH A MULTI-LAYERED CAP (IN-PLACE CONTAINMENT OF WASTE ROCK)

| | Quantity | Units | Unit Price | Cost |
|---|----------|----------|--------------|----------------|
| CAPITAL COSTS | | | | |
| Mobilization, Bonding, & Insurance | 1 | L.S. | \$453,356.25 | \$453,356.25 |
| Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.00 |
| Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.00 |
| Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| Excavate & Stockpile (Salvage) Existing Cap Material | 30,000 | C.Y. | \$3.00 | \$90,000.00 |
| Clear & Grub Repository Area Timber | 5 | Acre | \$5,000.00 | \$25,000.00 |
| Excavate Repository / Stockpile Soil | 47,000 | C.Y. | \$2.50 | \$117,500.00 |
| Excavate Tailings, Waste Rock & OSC Wastes, Haul, Load Repository & Compact | 267,200 | C.Y. | \$5.00 | \$1,336,000.00 |
| Lime for Wet Tailings Dehydration | 10,000 | Tons | \$36.00 | \$360,000.00 |
| Install Geocushion | 24,200 | S.Y. | \$3.50 | \$84,700.00 |
| Install GCL Cap Liner | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Install Geocomposite (Drainage Layer) | 24,200 | S.Y. | \$5.00 | \$121,000.00 |
| Apply Cover Soil Over Repository (2' depth) | 17,000 | C.Y. | \$1.50 | \$25,500.00 |
| Apply Salvaged Cap Material Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| Apply Salvaged Cap Material Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$1.00 | \$19,000.00 |
| Organic Amendment | 2,680 | Dry Tons | \$150.00 | \$402,000.00 |
| Apply Clean Cover Soil Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |
| Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$2.50 | \$47,500.00 |
| Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.00 |
| Fertilize and Seed | 23.5 | Acres | \$1,500.00 | \$35,250.00 |
| Mulch | 23.5 | Acres | \$1,000.00 | \$23,500.00 |

TABLE D-4 Continued

| TOTAL CAPITAL COSTS | | | \$ | 4,170,877.50 |
|----------------------------------|-------|------|------------|----------------|
| Contingency (20%) | | | | \$695,146.25 |
| Subtotal | | | | \$3,475,731.25 |
| Restore Temporary Roads | 1 | L.S. | \$3,000.00 | \$3,000.00 |
| Install Fences | 8,650 | L.F. | \$3.00 | \$25,950.00 |
| Runon Control Ditch Construction | 2,500 | L.F. | \$5.00 | \$12,500.00 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 5c, McLAREN TAILINGS SITE ON-SITE DISPOSAL IN A CONSTRUCTED REPOSITORY WITH A SOIL COVER (IN-PLACE CONTAINMENT OF WASTE ROCK)

| | | Quantity | Units | Unit Price | Cost |
|----|---|----------|----------|--------------|----------------|
| | CAPITAL COSTS | | | | |
| | Mobilization, Bonding, & Insurance | 1 | L.S. | \$404,351.25 | \$404,351.25 |
| | Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.00 |
| | Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| | Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.00 |
| | Excavate & Stockpile (Salvage) Existing Cap Material | 30,000 | C.Y. | \$3.00 | \$90,000.00 |
| | Clear & Grub Repository Area Timber | 5 | Acre | \$5,000.00 | \$25,000.00 |
| | Excavate Repository / Stockpile Soil | 47,000 | C.Y. | \$2.50 | \$117,500.00 |
| | Excavate Tailings, Waste Rock, & OSC Wastes, Haul, Load Repository & Compact | 267,200 | C.Y. | \$5.00 | \$1,336,000.00 |
| | Lime for Wet Tailings Dehydration | 10,000 | Tons | \$36.00 | \$360,000.00 |
| Ар | ply Salvaged Cap Material Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| 1 | Apply Salvaged Cap Material Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$1.00 | \$19,000.00 |
| | Organic Amendment | 2,680 | Dry Tons | \$150.00 | \$402,000.00 |
| | Apply Clean Cover Soil Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |
| | Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$2.50 | \$47,500.00 |
| | Apply Cover Soil Over Repository (2' depth) | 17,000 | C.Y. | \$1.50 | \$25,500.00 |
| | Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.00 |
| | Fertilize and Seed | 23.5 | Acres | \$1,500.00 | \$35,250.00 |
| | Mulch | 23.5 | Acres | \$1,000.00 | \$23,500.00 |
| | Runon Control Ditch Construction | 2,500 | L.F. | \$5.00 | \$12,500.00 |
| | Install Fences | 8,650 | L.F. | \$3.00 | \$25,950.00 |
| | Restore Temporary Roads | 1 | L.S. | \$3,000.00 | \$3,000.00 |

TABLE D-5 Continued

| Subtotal | \$3,100,026.25 |
|---------------------|----------------|
| Contingency (20%) | \$620,005.25 |
| TOTAL CAPITAL COSTS | \$3,720,031.50 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 6, McLAREN TAILINGS SITE OFF-SITE DISPOSAL IN A NEARBY MINE WASTE REPOSITORY (IN-PLACE CONTAINMENT OF WASTE ROCK)

| | | Quantity | Units | Unit Price | Cost |
|----|--|----------|----------|--------------|----------------|
| | CAPITAL COSTS | | | | |
| | Mobilization, Bonding, & Insurance | 1 | L.S. | \$772,571.25 | \$772,571.25 |
| | Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.00 |
| | Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.00 |
| | Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.00 |
| | Excavate & Stockpile (Salvage) Existing Cap Material | 30,000 | C.Y. | \$3.00 | \$90,000.00 |
| | Clear & Grub Borrow Area Timber | 4 | Acre | \$5,000.00 | \$20,000.00 |
| | Excavate/Stockpile Borrow Area Topsoil | 3,250 | C.Y. | \$2.00 | \$9,750.00 |
| | Excavate Borrow Area / Stockpile Soil | 30,000 | C.Y. | \$2.50 | \$75,000.00 |
| Ex | cavate, Haul, and Dispose of Tailings, Waste Rock & OSC Wastes | 267,200 | C.Y. | \$15.00 | \$4,008,000.00 |
| | Lime for Wet Tailings Dehydration | 10,000 | Tons | \$36.00 | \$360,000.00 |
| | Apply Salvaged Cap Material Over Waste Rock (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| | Apply Salvaged Cap Material Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$1.00 | \$19,000.00 |
| | Organic Amendment | 1,710 | Dry Tons | \$150.00 | \$256,500.00 |
| | Apply Clean Cover Soil Over Waste Rock (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |
| | Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$2.50 | \$47,500.00 |
| | Apply Salvaged Topsoil Over Borrow Area (6" depth) | 3,250 | C.Y. | \$1.00 | \$3,250.00 |
| | Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.00 |
| | Fertilize and Seed | 22.5 | Acres | \$1,500.00 | \$33,750.00 |
| | Mulch | 22.5 | Acres | \$1,000.00 | \$22,500.00 |
| | Runon Control Ditch Construction | 2,000 | L.F. | \$5.00 | \$10,000.00 |
| | Install Fences | 6,750 | L.F. | \$3.00 | \$20,250.00 |
| | Restore Temporary Roads | 1 | L.S. | \$2,000.00 | \$2,000.00 |

TABLE D-6 Continued

| Subtotal | \$5,923,046.25 |
|---------------------|----------------|
| Contingency (20%) | \$1,184,609.25 |
| TOTAL CAPITAL COSTS | \$7,107,655.50 |

PRELIMINARY COST ESTIMATE - ALTERNATIVE 7, McLAREN TAILINGS SITE OFF-SITE DISPOSAL IN A MT CLASS II LANDFILL

| | Quantity | Units | Unit Price | Cost |
|---|----------|----------|----------------|-----------------|
| CAPITAL COSTS | | | | |
| Mobilization, Bonding, & Insurance | 1 | L.S. | \$2,093,523.75 | \$2,093,523.7 |
| Road Improvements/Road Construction | 1 | L.S. | \$7,500.00 | \$7,500.0 |
| Install Temporary Bridge | 1 | L.S. | \$12,000.00 | \$12,000.0 |
| Install Stream Protection Structure | 2,525 | L.F. | \$9.00 | \$22,725.0 |
| Excavate & Stockpile (Salvage) Existing Cap Material | 30,000 | C.Y. | \$3.00 | \$90,000.0 |
| Clear & Grub Borrow Area Timber | 4 | Acre | \$5,000.00 | \$20,000.0 |
| Excavate/Stockpile Borrow Area Topsoil | 3,250 | C.Y. | \$2.00 | \$9,750.0 |
| Excavate Borrow Area / Stockpile Soil | 30,000 | C.Y. | \$2.50 | \$75,000.0 |
| Excavate, Haul, and Dispose of Wastes | 267,200 | C.Y. | \$48.00 | \$12,825,600.0 |
| Lime for Wet Tailings Dehydration | 10,000 | Tons | \$36.00 | \$360,000.0 |
| Apply Salvaged Cap Material Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$1.00 | \$11,000.00 |
| pply Salvaged Cap Material Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$1.00 | \$19,000.00 |
| Organic Amendment | 1,710 | Dry Tons | \$150.00 | \$256,500.00 |
| Apply Clean Cover Soil Over Waste Rock Footprint (1' depth) | 11,000 | C.Y. | \$2.50 | \$27,500.00 |
| Apply Clean Cover Soil Over Tailings Footprint (1' depth) | 19,000 | C.Y. | \$2.50 | \$47,500.00 |
| Apply Salvaged Topsoil Over Borrow Area (6" depth) | 3,250 | C.Y. | \$1.00 | \$3,250.00 |
| Stream Reconstruction (Soda Butte Cr. & Miller Cr.) | 2,050 | L.F. | \$45.00 | \$92,250.00 |
| Fertilize and Seed | 22.5 | Acres | \$1,000.00 | \$22,500.00 |
| Mulch | 22.5 | Acres | \$1,000.00 | \$22,500.00 |
| Runon Control Ditch Construction | 2,000 | L.F. | \$5.00 | \$10,000.00 |
| Install Fences | 6,750 | L.F. | \$3.00 | \$20,250.00 |
| Restore Temporary Roads | 1 | L.S. | \$2,000.00 | \$2,000.00 |
| Subtotal | | | | \$16,050,348.75 |
| Contingency (20%) | | | | \$3,210,069.75 |
| TOTAL CAPITAL COSTS | | | \$ | 19,260,418.50 |